



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Applicant: JEAN-YVES CHENARD ET AL : Group 153
 Serial No.: 254,313 : Examiner:
 V. Hoke
 Filed: April 15, 1981 :

For: IMPROVEMENT IN THE STABILIZATION
 OF VINYL HALIDE POLYMERS

DECLARATION OF PHILIP E. RAKITA -- 37 CFR 1.132

Hon. Commissioner of Patents and Trademarks
 Washington, D.C. 20231

Sir:

I, Philip E. Rakita, do hereby declare as follows:

1. I hold a Bachelor of Science degree in Chemistry from the Case Institute of Technology, Cleveland Ohio (1966) and a Ph.D. in Organometallic Chemistry from the Massachusetts Institute of Technology, Cambridge, Massachusetts (1970).
2. I was an Assistant Professor of Chemistry at the University of North Carolina, Chapel Hill, North Carolina for five years, during which time I directed a research group in the area of organometallic chemistry; I am currently employed by M&T Chemicals Inc. and have seven years of industrial experience in the field of organotin compounds for stabilization of PVC; I am an author of twenty-three articles in the field of organometallic chemistry; I am familiar with the literature and state of the art related to the use of organotin compounds to stabilize PVC.

3. I have read French Patent No. 2,434,835 of Chenard et al and it is my opinion that a chemist familiar with the use of organotin compounds as PVC stabilizers would know, first, that the mercaptoesters could be used in conjunction with a large number of organotin PVC stabilizers to improve the performance of the stabilizer, and second, that the well-known halogen-containing organotin stabilizers are among the compounds with which the mercaptoesters can be used.
4. I have read the Declaration of Michel Foure dated December 19, 1983 and it is my opinion that the experimental work described in that Declaration confirms the proposition that the mercaptoesters can be used to improve the stabilizing performance of halogen-containing organotin compounds.
5. It is further my opinion that any chemist familiar with the art of PVC stabilization who was acquainted with Chenard et al French Patent No. 2,434,835 and the experimental work described in the Declaration of Michel Foure would know that the halogen-containing organotin compounds were a useful sub-class falling within the class of organotin compounds with which the mercaptoesters described by Chenard et al could be used.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section

1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

19 July 1984
Date

Philip E. Rakita
Philip H. Rakita